IT Unit 3

Topic 1

# Ch 1 Organisations & Data Management

**Characteristics of data types, p 22**

**Elaborate under each of the following data types:**

1. Text, (string)
2. Numeric – integer, floating point
3. Date
4. Character
5. Boolean

**Databases and database terminology, p 23**

1. What is a database?
2. Explain the relationship between fields, records and tables.
3. Explain the purpose of the following objects in a database: forms, queries, reports & macros.
4. What is the purpose of SQL?
5. Distinguish between a flat file and a relational database? What are the advantages of using a relational data base?

**Relational databases, p 25**

1. What does RDBMS refer to?
2. Explain with eg.s the following different types of relationships between tables in a relational database.
   1. One-to-one relationship
   2. One-to-many relationship
   3. Many-to-many-relationship
3. What is meant by a foreign key?

**Creating an RDMS structure, p 26**

1. Why is it important to consider how to structure the data in a database? What needs to be considered?
2. What is the purpose of an entity relationship diagram? (go to p 28 to answer the following).
3. What are entities, use an eg. from p 28, and how are they represented?
4. What are the attributes and how are they represented?
5. How are relationships represented?
6. What is the difference between the Chen and Bachman models of representing ERD’s?